

## Recombinant Rat Agrin

**Cat. No.** Agrn-1789R    **Lot. No.** (See product label)

### SPECIFICATION

#### Product Overview

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Species</b>          | Rat                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Source</b>           | Sf21 Cells                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Description</b>      | <p>Agrin is a large proteoglycan whose best characterised role is in the development of the neuromuscular junction during embryogenesis. Agrin is named based on its involvement in the aggregation of acetylcholine receptors during synaptogenesis. In humans, this protein is encoded by the AGRIN gene. This protein has nine domains homologous to protease inhibitors. It may also have functions in other tissues and during other stages of development. It is major proteoglycan component in glomerular basement membrane and may play a role in the renal filtration and cell-matrix interactions.</p> |
| <b>Molecular Weight</b> | <p>The predicted molecular weight of Recombinant Rat Agrin (C-Terminal) is Mr 90 kDa. However, the actual molecular weight as observed by migration on SDS Page is Mr 100 kDa.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>State Of Matter</b>  | Lyophilized.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Purity</b>           | >90% by SDS Page and analyzed by silver stain.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Endotoxin</b>        | <1.0 EU/g as determined by the LAL method.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

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**Storage And Stability**

This lyophilized protein is stable for six to twelve months when stored desiccated at -20°C to -70°C. After aseptic reconstitution, this protein may be stored at 2°C to 8°C for one month or at -20°C to -70°C in a manual defrost freezer. Avoid Repeated Freeze Thaw Cycles. See Product Insert for exact lot specific storage instructions.

**GENE INFORMATION**

|                            |                                                            |
|----------------------------|------------------------------------------------------------|
| <b>Gene Name</b>           | <a href="#">Agrn agrin [ Rattus norvegicus ]</a>           |
| <b>Synonyms</b>            | Agrn; agrin;AGR                                            |
| <b>Gene ID</b>             | <a href="#">25592</a>                                      |
| <b>mRNA Refseq</b>         | <a href="#">NM_175754</a>                                  |
| <b>Protein Refseq</b>      | <a href="#">NP_786930</a>                                  |
| <b>UniProt ID</b>          | <a href="#">P25304</a>                                     |
| <b>Chromosome Location</b> | 5q36                                                       |
| <b>Pathway</b>             | ECM-receptor interaction                                   |
| <b>Function</b>            | acetylcholine receptor regulator activity; laminin binding |

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